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United States Patent

Patent Number: 5572171  
Date of Patent: 5 Nov 1996

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Signal distribution system with plural lines segments in a path and having  
varying sensitivities

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Field of Search ..... 333/1; 333/100; 333/136; 343/853

Reference Cited

PATENT DOCUMENTS

Patent Number	Date	Class	Inventor
US 4356462	Oct 1982	333/136.000	Bowman
US 4742355	May 1988	343/771.000	Wolfson et al.
US 4780723	Oct 1988	343/853.000	Mead
US 5278524	Nov 1994	333/001.000	Mullen

Art Unit - 252

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10 Claim(s), 11 Drawing Figure(s), 4 Drawing Page(s)

ABSTRACT

A signal distribution arrangement having a central signal source and a plurality of signal receivers located along a common path. Each of the signal receivers is coupled in communication with the signal source by a line arranged within the common path. To eliminate distortion of the signal due to outside interference sources, each of the lines is arranged within the common path so that it traverses the common path an odd number of times between the signal source and the receiver to which it is coupled, and traverses the common path an even number of times between the receiver to which it is coupled and the end of the common path. Within each segment of the common path, the relative propagation sensitivity of each line is controlled such that the product of the number of times the line traverses that segment multiplied the relative propagation sensitivity of the line is the same for all lines. The arrangement

according to the invention can also be applied to signal collection apparatus  
such as receiving stations.